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**From:** Strynar, Mark [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=5A9910D5B38E471497BD875FD329A20A-STRYNAR, MARK]  
**Sent:** 1/9/2020 9:03:17 PM  
**To:** Gillespie, Andrew [Gillespie.Andrew@epa.gov]; McCord, James [mccord.james@epa.gov]; Medina-Vera, Myriam [Medina-Vera.Myriam@epa.gov]  
**Subject:** RE: Additional update on NC State work  
**Attachments:** MJS correct AG comments 1-9-20 PFAS\_blood\_EHP\_TEXT.docx; AG PFAS\_blood\_EHP - Fact Sheet.docx

Andy,

Find attached the corrected manuscript with lines 461-462 corrected to read as the latest version now lines 460-463.

Also find attached the current Fact Sheet you made edits to that James and I are fine with.

Thanks,  
Mark

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**From:** Gillespie, Andrew <Gillespie.Andrew@epa.gov>  
**Sent:** Thursday, January 09, 2020 3:47 PM  
**To:** Strynar, Mark <Strynar.Mark@epa.gov>; McCord, James <mccord.james@epa.gov>; Medina-Vera, Myriam <Medina-Vera.Myriam@epa.gov>  
**Subject:** RE: Additional update on NC State work

Thanks Mark. I need the final corrected manuscript file, and someone to indicate they are OK with my addition to the fact sheet, then I can send this on its way.

Andrew J. R. Gillespie, Ph. D.  
Associate Director, US EPA/ORD/CEMM  
ORD Executive Lead for PFAS R&D

Office 919 541 3655 Cel Ex. 5 Deliberative Process (DP)

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**From:** Strynar, Mark <Strynar.Mark@epa.gov>  
**Sent:** Thursday, January 09, 2020 3:34 PM  
**To:** Gillespie, Andrew <Gillespie.Andrew@epa.gov>; McCord, James <mccord.james@epa.gov>; Medina-Vera, Myriam <Medina-Vera.Myriam@epa.gov>  
**Subject:** RE: Additional update on NC State work

Okay Andy. That was fixed in the version I was working one.

# Ex. 5 Deliberative Process (DP)

## Ex. 5 Deliberative Process (DP)

Thanks,  
Mark

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**From:** Gillespie, Andrew <Gillespie.Andrew@epa.gov>

**Sent:** Thursday, January 09, 2020 2:53 PM

**To:** Strynar, Mark <Strynar.Mark@epa.gov>; McCord, James <mccord.james@epa.gov>; Medina-Vera, Myriam <Medina-Vera.Myriam@epa.gov>

**Subject:** RE: Additional update on NC State work

Andrew J. R. Gillespie, Ph. D.  
Associate Director, US EPA/ORD/CEMM  
ORD Executive Lead for PFAS R&D

Office 919 541 3655 Cell Ex. 6 Personal Privacy (PP)

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**From:** Strynar, Mark <Strynar.Mark@epa.gov>

**Sent:** Thursday, January 09, 2020 2:44 PM

**To:** Gillespie, Andrew <Gillespie.Andrew@epa.gov>; McCord, James <mccord.james@epa.gov>; Medina-Vera, Myriam <Medina-Vera.Myriam@epa.gov>

**Subject:** RE: Additional update on NC State work

Andy,

Can you send along the version of the manuscript referring to those lines you mention below. I fixed the affiliation for CEMM in my most recent comments, however I am unsure of lines 461-462. I think I had a newer version to what you had.

I think in the AN we should add NC DEQ/NC DOH along with the EPA folks.

Mark

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**From:** Gillespie, Andrew <Gillespie.Andrew@epa.gov>

**Sent:** Thursday, January 09, 2020 9:39 AM

**To:** McCord, James <mccord.james@epa.gov>; Medina-Vera, Myriam <Medina-Vera.Myriam@epa.gov>

**Cc:** Strynar, Mark <Strynar.Mark@epa.gov>

**Subject:** RE: Additional update on NC State work

Dang. Still an interesting paper. Couple of comments.

## Ex. 5 Deliberative Process (DP)

# Ex. 6 Personal Privacy (PP)

Please send me a revised manuscript and confirm my comment on (1), and I will send it up.

Andrew J. R. Gillespie, Ph. D.  
Associate Director, US EPA/ORD/CEMM  
ORD Executive Lead for PFAS R&D

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**From:** McCord, James <mccord.james@epa.gov>  
**Sent:** Wednesday, January 08, 2020 11:21 AM  
**To:** Gillespie, Andrew <Gillespie.Andrew@epa.gov>; Medina-Vera, Myriam <Medina-Vera.Myriam@epa.gov>  
**Cc:** Strynar, Mark <Strynar.Mark@epa.gov>  
**Subject:** RE: Additional update on NC State work

Andy,

While that would be a truly impressive finding, just a version issues switching between the fish and human studies with NC state. Proper fact sheet is attached.

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James McCord

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**From:** Gillespie, Andrew <Gillespie.Andrew@epa.gov>  
**Sent:** Wednesday, January 8, 2020 9:52 AM  
**To:** Medina-Vera, Myriam <Medina-Vera.Myriam@epa.gov>  
**Cc:** Strynar, Mark <Strynar.Mark@epa.gov>; McCord, James <mccord.james@epa.gov>  
**Subject:** RE: Additional update on NC State work

Folks – is this the right fact sheet? Starts with discussion of human serum, then switches to discussion of PFAS in fish and wildlife....

Are you saying exposure to these novel PFAS cause one to change species from human to fish? THAT would make a great Advanced Notification package...

Andrew J. R. Gillespie, Ph. D.  
Associate Director, US EPA/ORD/CEMM  
ORD Executive Lead for PFAS R&D

Office 919 541 3655 Cel Ex. 5 Deliberative Process (DP)

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**From:** Medina-Vera, Myriam <Medina-Vera.Myriam@epa.gov>  
**Sent:** Friday, December 20, 2019 1:23 PM  
**To:** Watkins, Tim <Watkins.Tim@epa.gov>; Gillespie, Andrew <Gillespie.Andrew@epa.gov>; Gilliland, Alice <Gilliland.Alice@epa.gov>; Oshima, Kevin <Oshima.Kevin@epa.gov>

Cc: Strynar, Mark <Strynar.Mark@epa.gov>; McCord, James <mccord.james@epa.gov>

Subject: Additional update on NC State work

Tim, Andy, Alice, Kevin:

Another update. James received the copy of the article for review by co-authors at EPA. We want to take this opportunity to share with you for review. Sania Tong-Argao is the QAM that will review this article per Margie Vazquez (Sania is more familiar with the effort). QA will do the review after January 6 (when everyone is back from break). The journal article was on the list provided to OW previously. It is not in STICS yet as is now under our review. The article describes the methodology used to detect six fluoroethers in serum and the results. We do understand the sensitivities so this is a heads-up before we start any clearance or advance notification process. Your comments are welcome during the review process. ☺

Myriam Medina-Vera, Ph.D.

Chief MMB/WECD/CEMM

Research Triangle Park, NC

Voice: 919-541-5016

Fax: 919-541-0239

Mobile: Ex. 5 Deliberative Process (DP)

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From: Medina-Vera, Myriam

Sent: Monday, December 16, 2019 7:43 AM

To: Tim Watkins <Watkins.Tim@epa.gov>; Gillespie, Andrew <Gillespie.Andrew@epa.gov>; Gilliland, Alice <Gilliland.Alice@epa.gov>; Oshima, Kevin <Oshima.Kevin@epa.gov>

Cc: Mark Strynar <Strynar.Mark@epa.gov>; McCord, James <mccord.james@epa.gov>

Subject: Update on work with NC State

Tim, Andy, Alice, Kevin:

Per lady week's PFAS managers meeting, below is an update on the NC State activities. The researchers are willing to provide a short briefing. They are available this week and then mostly gone for the Holidays. In summary:

- 1) **Status of the research-** The manuscript on the PFAS found in human serum in Wilmington NC is making its rounds between the authors. After the initial revisions, the researchers are awaiting a clean version from Nadine to enter into the EPA clearance I would expect it in the next month.
- 2) **NC State plans to make the data public-** The data was made public to the participants via a letter sent to them and a public presentation. After the paper is accepted, it is anticipated that a follow-up presentation will be given if anything has changed since NC State public meeting/letters in the past. Mark will let us know any updates.
- 3) **Proposed Fayetteville work-** The water analysis with all the NCSU work is now being done at NCSU. They have collected in the past urine that has not been analyzed and new serum samples from the residents near the Fayetteville, NC Chemours facility. None of those samples have been analyzed either. The plan is to get the serum and urine shipped to NCSU after the Holidays for a screening of the urine samples. The serum samples were to be analyzed at EPA facilities again by an NCSU post-doc to replicate the analysis that was done for the previous serum samples reported on in the draft paper. The reason why the analysis is being done at EPA is that the method used was on the Orbitrap so to keep the method consistent between the two samples sets it was the best approach and offered the most sensitivity and continuity. Thus far none of the new serum or old urine has been analyzed.
- 4) **NC State laboratories-** NCSU has not had any recent usage of our equipment but is has not stopped. Mark does know they have an MS/MS and a QTOFMS that are functional and are doing all of the water work on their campus. The Orbitrap at NCSU is a shared piece of equipment in a core facility and is not performing as it should for their work.

Hope this helps. Mark, James- is there anything else to report?

Myriam Medina-Vera, Ph.D.

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